

PAPER OF CORNSTALKS

Government Chemists Discover
New Process of Making It.

IS CHEAP TO MANUFACTURE.

Cut of 50 Per Cent From Cost of Wood
Pulp Paper Predjoted—Five Grades
Can Be Made—Turns Waste Into
Revenue For Farmers.

Chemists of the bureau of forestry and the bureau of plant industry in Washington, working in co-operation, at last have solved the problem of how to turn the millions of tons of cornstalks wasted every year in the United States into a serviceable paper. The facts were recently announced at the bureau of forestry, and they show beyond doubt that the vast quantity of material heretofore considered valueless and destroyed every year by farmers can be utilized, thus saving much of the remaining wood reserve of the country and bringing about the manufacture of paper from an annual crop.

The first practicable samples of this new paper have been manufactured in Washington by Dr. H. S. Bristol and his assistants at the new laboratory, 1530 Pennsylvania avenue southeast. They were shown at the bureau offices in F street, and they consist of five grades, in five colors. One grade is a dark gray, thick and heavy, resembling parchment. It is almost as tough as the historical sheepskin. There is a lighter gray of the same character, two shades of yellow and one of white. The latter are manufactured from the hard outside part of the stalk, and the former from the interior or pith.

The yellow grades have much longer fiber, resembling paper made from cotton rags or linen, soft to the touch, pliable and appear to have been made from material entirely of different character from that used in the gray qualities.

The chemists used the "soda cooked" process, which many manufacturers have discovered to be the best treatment for the finer grades of wood pulp. The cornstalk pulp can be cooked in two or two and a half hours as against twelve to fourteen hours needed in treating wood. The surprising discovery also was made that in the present primitive steps in experimentation cornstalk paper can be made almost as cheaply as wood paper, though the latter industry has been developing through fifty years. The belief is expressed that when proper machinery is brought out and the farmers grow cornstalks in localities where it can be moved cheaply to the mills of the future the cost will be fully 50 per cent less than wood paper.

At the present time, with wood at \$8 a cord, paper pulp can be manufactured at \$13 a ton. With cornstalks at \$5 a ton, and, adding the cost of bringing the stalks from nearby farms to the Washington laboratory, pulp can be manufactured at \$14 a ton. These figures are regarded as prophetic of the future, no new product ever having been produced in the past at anywhere near the price reached subsequently with commercial development.

"No special growth of corn is needed," said one of the chemists, "as our experiments have shown that any kind will do. We used common Virginia and Maryland field corn. That grown and destroyed in Illinois and Indiana, Maine and Texas, will do just as well.

"The discovery is undoubtedly one of the most valuable of its kind made recently. It will add millions of dollars to the pockets of farmers, put a partial stop to forest destruction and furnish the country with an equally good but a much cheaper paper than that now in use."

PERILS OF BIG CANAL DIGGERS

Steam Shovel at Panama Cut Through
Bushel of Dynamite.

Diggers of the Panama canal got a new side light on the constant danger in their occupation a short time ago when a steam shovel at work on a rock section of canal No. 2, between Matachin and Gorgona, cut through about a bushel of dynamite deeply imbedded in the rock and dumped it into a waiting truck. According to advices recently received at Washington from the isthmus, the gulch was crowded with workmen at the time, and only the defective condition of the old explosive prevented a fatal accident.

The dynamite was evidently a relic of the French operations on the isthmus. It was in large sticks, apparently in a perfect state of preservation, though the trademark of a French manufacturing concern on them bore a date that was deciphered to be Nov. 29, 1887. After the scare subsided, however, the engineers in charge tried to explode the old dynamite without result.

Guards For Rockefeller's New House.
John D. Rockefeller took formal possession of his new million dollar house

at Pocantico Hills, N. Y., the other day. He arranged at the same time to station eighteen watchmen, two detectives and one bloodhound to guard himself and his family from annoyance. The new house, it develops, as it stands completed today, is one of the most inaccessible homes in the United States, a labyrinth of winding walks, blind passages and hidden steps, having been constructed with the idea of confusing any day or midnight intruder. Even the playhouse, which is intended for Mr. Rockefeller's grandchildren, is connected with the residence by a tunnel or half sunken covered passageway.

Cold Weather Advice

to all is to beware of coughs and colds on the chest; as neglected they readily lead to consumption, pneumonia or other pulmonary troubles. Just as soon as the cough appears treat it with Ballard's Horehound Syrup the standard cure of America. Use as directed—perfectly harmless. A cure and preventive for all diseases of the lungs. Price 25c, 50c and \$1.00 per bottle. Sold by Titusville Pharmacy and Banner Drug Store.

A Beetle Story.

A beetle weighing two grains is able to move a weight of five and one-half ounces, or 1,320 times its own weight. A man weighing 150 pounds, if proportionately strong, could thus move 198,000 pounds, or nearly a hundred tons. Some years ago I captured a very handsome beetle and placed it under a beaker—a thin tumbler used in chemical analysis—on a shelf of my laboratory. A few hours after the beetle had disappeared very mysteriously, the beaker remaining inverted. He was recaptured and again placed under the beaker. I watched the result and presently found that the beetle walked the tumbler along the shelf till it reached the edge, then crept out and fell as soon as the overhang was sufficient to afford room for escape.—W. Mattieu Williams in the Gentleman's Magazine.

How a Good Bluff Worked.

At 10 o'clock the cashier in a certain establishment was seized with influenza. At noon the bookkeeper gasped and collapsed. Both men were sent home in cabs, and the crippled establishment was left to get along as well as it could in such unforeseen circumstances.

At 1:30 the typist announced that he must go and put his feet into hot water or his dissolution would follow. He was given permission to save his life.

At 2 o'clock the three clerks succumbed together. They attributed the attack to some fish of which they had incautiously partaken.

The proprietor was now left alone, save for the presence of one small office boy. Presently he arose and put on his hat with a determined air.

"Tommy," he said, "I think you and I had better go and see the game too!"—Liverpool Mercury.

Where They Got Off.

The elderly matron with the bundles, who was journeying to a point in Wisconsin and occupied a seat near the middle of the car, had fallen asleep. On the seat in front of her sat a little boy. The brakeman opened the door of the car and called out the name of the station the train was approaching. The elderly woman roused herself with a jerk.

"Where are we now, Bobby?" she asked.

"I don't know, grandma," answered the little boy.

"Didn't the brakeman say something just now?"

"No. He just stuck his head inside the door and sneezed."

"Help me with these things, Bobby!" she exclaimed hurriedly. "This is Osh kosh. It's where we get off."—Exchange.

A "Dry" Exposition.

The department of publicity of the Alaska-Yukon-Pacific exposition, which will be held at Seattle next year, has sent out a circular which states that the exposition will be "dry." No intoxicating beverages will be sold on the grounds, and this action has been taken despite the fact that the sale of beer and liquors is known to have been a great source of revenue at former expositions. The management takes pains to make it known that even the Bay Streak, which will take the place of the Midway at the exposition and will contain a mile of amusement resorts and catchpenny schemes, will be as dry as any other part of the show.

Excellent Health Advice

Mrs. M. M. Davison, of No. 379 Gifford avenue, San Jose, Cal., says: "The worth of Electric Bitters as a general family remedy, for headache, biliousness and torpor of liver and bowels, is so pronounced that I am prompted to say a word in its favor for the benefit of those seeking relief from such afflictions. There is more health for the digestive organs in a bottle of Electric Bitters than in any other remedy I know of." Sold under guarantee at Banner Drug Store. 50c.

Soothes itching skin. Heals cuts or burns without a scar. Cures piles, eczema, salt rheum, any itching. Doan's Ointment. Your druggist sells it.

CASTORIA.

Bears the Signature of *Chas. H. Fletcher*

JUDGE'S OFFER TO A BOY.

To Get \$100 if He Gives Up Revolvers and Yellow Backs Until Twenty-one.

"Stop carrying a revolver and quit reading yellow backs until you are twenty-one. Then come around to my office and I will give you a check for \$100 to help you along."

Judge John T. Sims of Kansas City, Kan., was moved to generosity the other morning when James Higgins of 2800 North Tremont street, Kansas City, a youth of sixteen, entered the police courtroom in that city and, stepping up to the desk, laid down a 32 caliber revolver and a pile of paper back novels.

"There they are, judge, all of them," he said. He started to run away, but a new thought struck him. "I like to read stories of hunting and of adventure, and, as for the revolver, I only used it to practice shooting when I went down to the river bank."

Judge Sims looked at the paper backs. Two of them were of the Tip Top Weekly series and were, entitled "Dick Merriwell In the Wilds" and "Dick Merriwell's Red Comrade," both stories of hunting in the mountains. The other was of the Nick Carter Weekly series, entitled "Nick Carter's Japanese Rival." It was a detective story of Japan.

"These may not be so bad," Judge Sims commented. "But as a general proposition such reading is bad for a boy, and too often it leads to evil. There is something good in you, something hopeful, something manly. See that you quit reading such things, stop carrying a gun, make a man of yourself and the \$100 is yours."

WHY SO WEAK?

Kidney Troubles May be Sapping
Your Life Away. Titusville People Have Learned This Fact

When a healthy man or woman begins to run down without apparent cause, becomes weak, languid, depressed, suffers backache, headache, dizzy spells and urinary disorders, look to the kidneys for the cause of it all. Keep the kidneys well and they will keep you well. Doan's kidney pills cure sick kidneys and keep them well. Here is Titusville testimony to prove it.

Mrs. Calvin Hunt, living in Titusville, Fla., says: "Prior to using Doan's Kidney pills I suffered severely from dull, nagging backaches. There was also a soreness and lameness across the small of my back which bothered me both day and night. If I stooped I could hardly straighten. No position I assumed was comfortable and mornings upon arising my back would be very lame. My housework became a burden and some days I was hardly able to attend to my duties. It was finally my good fortune to hear of Doan's Kidney pills, and I procured a box. Since using them I have been free from backaches, the lameness and soreness has vanished and I can now do my work with ease and comfort. You are welcome to use my name as one who can recommend Doan's Kidney pills very highly."

For sale by all dealers. Price 50 cents. Foster-Milburn Co., Buffalo, New York, sole agents for the United States.

Remember the name—Doan's—and take no other.



This is an exact representation of the cart in containing a bottle of St. Joseph's Liquid Liver Regulator, but it is much larger than this illustration, and printed in black ink on a yellow carton. Druggists and general merchants sell it at 50 cents a bottle, or you can get it direct from us at the same price. This is a delightful liver medicine—prompt, effective, and exceedingly pleasant to the taste. Try just one bottle to satisfy yourself—and you'll buy more.

GERSTLE MEDICINE CO.
Chattanooga, Tenn.

Eat What

You want of the food you need
Kodol will digest it.

You need a sufficient amount of good wholesome food and more than this you need to fully digest it.

Else you can't gain strength, nor can you strengthen your stomach if it is weak.

You must eat in order to live and maintain strength.

You must not diet, because the body requires that you eat a sufficient amount of food regularly.

But this food must be digested, and it must be digested thoroughly.

When the stomach can't do it, you must take something that will help the stomach.

The proper way to do is to eat what you want, and let Kodol digest the food.

Nothing else can do this. When the stomach is weak it needs help; you must help it by giving it rest, and Kodol will do that.

Our Guarantee

Go to your druggist today, and purchase a dollar bottle, and if you can honestly say, that you did not receive any benefits from it, after using the entire bottle, the druggist will refund your money to you without question or delay.

We will pay the druggist the price of the bottle purchased by you.

This offer applies to the large bottle only and to but one in a family.

We could not afford to make such an offer, unless we positively knew what Kodol will do for you.

It would bankrupt us. The dollar bottle contains 2½ times as much as the fifty cent bottle.

Kodol is made at the laboratories of E. C. DeWitt & Co., Chicago.

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BULL DOG SUSPENDERS have unbreakable, non-rusting, gold gilt metal parts; tough, pliable Bull Dog ends that won't pull out at the bottom holes, are made in light, heavy and extra heavy weights (extra long if desired), comfortable, neat, durable. They are True Suspender Economy.

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One Who Knows.

J. G. Scott, Salt Lake City, Utah, writes: "I cannot too highly praise your Ballard's Snow Liniment for the relief of acute rheumatism, caused by sudden change and exposure to the weather. I also recommend your Ballard's Horehound Syrup for coughs and colds. These used together defy all pain."

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